NOVEMBER/DECEMBER 2024

CCA43/CSCS43/CESC63C — WIRELESS DATA COMMUNICATIONS

Time : Three hours Maximum : 75 marks

Shanmuga Industries Arts & Science College T.V.Malai

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Name the four components of a data communication system.

2. List down the merits of mesh topology.

3. What is handoff in cellular Technology?

4. Write a short note on Transmission Imparement.

5. What does the term error control mean in the data link layer?

6. Differentiate between burst and single bit errors.

7. State three low power states of a Bluetooth device to save battery power.

8. Define the term Handover.

9. Mention the usage of HTTP.

10. Write four factors needed for a secure communication.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the differences between a standards creation committee, forum and regulatory agency.

Or

(b) Summarize three types of Transmission mode.

12. (a) Narrate the different types of Transmission impairment.

Or

(b) Describe the components of a fibre-optic cable and enumerate its advantages.

13. (a) Briefly describe the concept of redundancy in error detection.

Or

(b) Write an account on packet switching.

14. (a) Illustrate the advantages and disadvantages of WLAN's.

Or

(b) Write an account on wireless ATM working group.

15. (a) Explicate the three main divisions of the domain name space.

Or

(b) Briefly discuss on the significances of digital signature.

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Expound the functions of layers in OSI model.

17. Discuss in detail about the unguided media.

18. Describe the methods that control the flow of data across the communication.

19. Explicate the advantages and disadvantages of wireless LAN.

20. Elucidate the importance of the TCP/IP transport layer protocols.

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